Environmental Technology
of North America, Inc.
A HazWaste Company

July 11, 1994

Mr. Larry Coble
Regional Supervisor
North Carolina Dept. of Environment, Health,
& Natural Resources
8025 North Point Blvd., Suite 100
Winston-Salem, North Carolina 27106-3203

RE: UST Closure Report
Facility ID# 0-015171
Norfolk & Western Railway Company
Old Auto Car Ramp (Abandon)
5031 Old Walkertown Road
Winston-Salem, NC

Dear Mr. Coble:

Environmental Technology of North America, Inc. (ETI) has completed the UST closure at the above refererenced project. Attached is the UST Tank Abandonment/Closure Report as required.

Please call if there are any questions.

Sincerely,

Eric K. Lintz
Project Manager/Staff Geologist

Eric A. Ewald (EKL)
Eric A. Ewald
Engineer-in-Training

EKL/ekl/eae

attachments (1)

cc: Jerome Williams (Norfolk & Western Railway Company)

311-J SOUTH WESTGATE DRIVE ▪ GREENSBORO, NORTH CAROLINA 27407
TELEPHONE 910-299-9998 ▪ EMERGENCY 800-228-SPIL
FAX 910-299-0655

ATLANTA ▪ BOWLING GREEN ▪ EDISON ▪ GREENSBORO ▪ NEW CASTLE ▪ RICHMOND ▪ ROANOKE ▪ WOODBRIDGE

Nations Environmental & Engineering Services, Inc.

July 11, 1994

Mr. Larry Coble
Regional Supervisor
North Carolina Dept. of Environment, Health,
& Natural Resources
8025 North Point Blvd., Suite 100
Winston-Salem, North Carolina 27106-3203

RE: UST Closure Report
Facility ID# 0-015171
Norfolk & Western Railway Company
Old Auto Car Ramp (Abandon)
5031 Old Walkertown Road
Winston-Salem, NC

Dear Mr. Coble:

Nations Environmental & Engineering Services, Inc. (Nations), a registered North Carolina Professional Corporation, has reviewed the attached closure report at the above referenced location on behalf of Environmental Technology of North America, Inc. (ETI). As the professional in responsible charge, the closure was completed using acceptable technical practices consistent with North Carolina Division of Environmental Management (DEM) laws, regulations, and guidelines.

Please call if there are any questions.

Sincerely,

Michael J. Lamore, PE
President

enclosures

Underground Storage Tank
Tank Abandonment / Closure Report

Site: Norfolk & Western Railway Company
Old Car Ramp Facility
5031 Old Walkertown Road
Baker Lot
Winston-Salem, North Carolina
Facility ID# 0-015171

To: North Carolina Department of Environment,
Health & Natural Resources
Division of Environmental Management
Groundwater Section
8025 North Point Boulevard
Winston-Salem, NC 27106
(910) 896-7007

From: Norfolk & Western Railway Company
110 Franklin Road, Southeast
Roanoke, VA 24041
(703) 981-4994

Prepared By: **ENVIRONMENTAL TECHNOLOGY OF NORTH AMERICA, INC.**
311-J South Westgate Drive
Greensboro, North Carolina 27407
(910) 299-9998
(910) 299-0655 (FAX)

Date: June 27, 1994

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Appendices

1.0 EXECUTIVE SUMMARY

Environmental Technology of North America, Inc. (ETI) was contracted by Norfolk & Western Railway Company (N&W) to remove one 1,000 gallon gasoline underground storage tank (UST) from the former auto car ramp at 5031 Old Walkertown Road, Winston-Salem, North Carolina. The UST was recently discovered by Norfolk & Western Railway Company personnel during a detailed inspection of the site. The UST was subsequently amended to the facility ID (Form GW/UST-8) and 30-day notification (Form GW/UST-3) was provided to the Division of Environmental Management (DEM).

On May 25, 1994, ETI inerted, excavated, and removed a 1,000 gallon gasoline UST located at 5031 Old Walkertown Road (see Figures 1 & 2). The UST had been out of service since the mid-1970's and was originally thought to be ±500 gallons in size, as noted on the GW/UST-3 and UST-8 forms. Prior to removal of the UST, previous tank contents were identified as gasoline; however, there was no residual product present to be removed. Approximately 14 cubic yards of soil were removed from the excavation with a maximum depth of approximately 4.5 feet. Two (2) grab soil samples were collected from the bottom of the excavation and one (1) composite soil sample was collected from the stockpiled soils. The samples were submitted to AquaChem Environmental Laboratories, Inc., a North Carolina certified laboratory, for analysis of soil for Total Petroleum Hydrocarbons (TPH) under Method 5030. All samples collected indicate below DEM action limit concentrations of the target parameter. The excavation pit was backfilled with excavated soils deemed clean by field screening, and additional clean backfill brought in from off-site.

After removal, the UST was marked according to all applicable regulations and transported to Southern Tank and Environmental, Inc., a North Carolina certified disposal facility located in Charlotte, North Carolina, where it was cleaned and cut up for scrap. The UST certificate of disposal is located in Appendix B.

The removal and disposal of the UST and its contents as well as all sampling was performed in accordance with all applicable Environmental Protection Agency (EPA) regulations (40 CFR 280), North Carolina Division of Environmental Management (DEM) requirements, and contract specifications.

Because laboratory analysis confirmed that no contamination remains in the excavation, no further action should be required.

2.0 PROJECT BACKGROUND

On April 27, 1994, Norfolk & Western Railway Company (N&W) contracted ETI to remove one 1,000 gallon gasoline UST at the Baker Lot at 5031 Old Walkertown Road, Winston-Salem, North Carolina. This tank had been out of service since the mid-1970's.

2.1 Product Sampling & Disposal Procedures

Prior to removal, the UST was sounded to determine the quantity of product present. This tank had been out of service since the mid-1970's, and no measurable product was present.

2.2 OVA Field Screening and Head Space Analysis

An organic vapor analyzer (OVA) was utilized continuously during the UST removal process to monitor ambient air quality as well as to screen excavated soils for organic vapors. If field screening indicated the presence of organic vapors in the excavated soils, those soils would be staged separately from the clean soils. Headspace analyses were also performed on various excavation and/or stockpile samples to detect the presence of organic vapors. No organic vapors were found to be detectable in the excavated soils.

2.3 Sampling Procedures and Analytical Parameters

Soil samples were collected in accordance with applicable Environmental Protection Agency (EPA) regulations (40 CFR 280) and North Carolina Division of Environmental Management (DEM) guidelines. All samples were submitted to AquaChem Environmental Laboratories, Inc., a North Carolina certified laboratory, for analysis of the required parameters. Table 1 illustrates required analytical parameters, sample media, and the North Carolina DEM action limits for contaminated soil.

Table 1

Required Analytical Parameters and Sample Media

Soil Parameters			
Petroleum Constituent	**Analytical Parameter(s)**	**DEM Action Limit (ppm)**	**Sample Media**
Low Boiling Point Fuels Gasoline range	TPH (5030)	10.0	4 oz. glass jar
High Boiling Point Fuel Diesel/Heating Oil range	TPH (3550)	40.0	4 oz. glass jar
	TPH (5030)	10.0	

At the bottom of the tank excavation, two grab soil samples were collected based upon the UST length. Grab samples were collected at the most likely location of the contamination. Due to safety concerns, all bottom samples were obtained utilizing the backhoe/trackhoe bucket. No groundwater was encountered in the excavation, and no groundwater samples were collected.

One (1) composite soil sample was collected from the segregated stockpile utilizing a decontaminated stainless steel four (4) inch hand auger. The number of samples collected was based upon the volume of the stockpiled soils which was estimated using the geometry of the pile and/or the excavation. Table 2 summarizes stockpile sampling requirements.

Table 2

Stockpile Sampling Requirements

Stockpile Volume (CY)	Required Samples	Comments
1 - 150	1	
151 - 300	2	
301 - 500	3	
501 - 700	4	
701 - 900	5	
901 - 1200	6	
>1200	1 per 200 CY	

Once the volume was determined, a grid was laid out that divided up the pile into square blocks with equal surface area. The number of the grid blocks was equal to the required number of samples for analysis. Each grid block was represented by at least one composite sample. Primary core samples were taken in a pattern that randomly sampled the various portions or layers of the stockpile (a portion or layer consists of a load of soil, such as from a dump truck or a backhoe bucket, which is a discreet addition to the pile). The sampling pattern took into consideration both the vertical and horizontal distribution of the portions/layers. Sample cores were distributed as evenly as practical across each grid block.

For the sample collected, dedicated, disposable gloves were worn. Soils were placed in a clean, laboratory-grade four (4) ounce glass jar and sealed. The jar had a teflon lid, was filled with soil and

lightly packed, and had a waterproof label secured to it. The jar was labeled accordingly and immediately stored properly in a cooler where it was chilled to four (4) degrees celsius by packing the cooler with ice bags and transported to the designated laboratory. A chain of custody was included indicating sample number, location, time, date, and analytical parameters. Sample numbers and locations ware clearly recorded in a site log and sketched on a scaled site map. All samples were properly packaged to prevent breakage.

2.4 UST Disposal Procedures

After removal, the UST was marked according to all applicable regulations and transported to Southern Tank and Environmental, Inc., a North Carolina certified disposal facility located in Charlotte, North Carolina, where it was cleaned and cut up for scrap. The UST certificate of disposal is located in Appendix B.

Prior to cutting or personal entry, the tank was checked for explosive gas mixtures and oxygen content with a combustible gas indicator/oxygen meter (CGI/O_2). All readings were formally recorded and filed on-site for immediate inspection. The tank was fully inerted and was not cut until the lower explosive limit (LEL) was less than 10% and was not entered by personnel. Level C personal protective equipment (PPE) was utilized during tank cleaning which consisted of a full-face air purifying respirator, tyvek coveralls, nitrile gloves, and rubber steel-toed boots as required by OSHA.

Once satisfactory internal gas mixtures were achieved, openings were cut on each side of the UST with an acetylene torch to provide cross ventilation for maintaining appropriate oxygen content and low explosive gas mixtures. Personnel in full Level C PPE entered the tank and removed all petroleum sludge/residue and pressure-washed the walls of the tank. Sludge/residue and pressure wash rinsate were stored on-site in 55-gallon, open-head, 17H steel drums for later disposal. Drums were clearly labeled with paint markers indicating content (i.e mogas, diesel, waste-oil) as well as content origin (i.e. tank numbers). The remainder of the tank was then cut into approximately four (4) foot strips utilizing a pneumatic, spark-free "nibbler". Following successful demolition, formal certificates of UST destruction were completed.

3.0 FIELD INVESTIGATION

ETI mobilized equipment, tools, supplies, and manpower to 5031 Old Walkertown Road, Winston-Salem, North Carolina on May 25, 1994. The scope of work was reviewed and a safety meeting was held. Meter calibration records for the organic vapor analyzer (OVA) and

the combustible gas indicator (CGI) were reviewed to assure recent calibration.

Prior to excavating any soils, the CGI was used to ensure that no explosive gas mixture existed within the tank. At approximately 2:00 PM, a soil staging area was set up utilizing ten (10) mil polyliner and excavation began. Excavated soils were continually screened for petroleum odors utilizing the OVA. OVA readings and visual inspections did not indicate the presence of organic vapors in the soils. Approximately 14 cubic yards of soil were removed with the maximum excavation depth approximately 4.5 feet. Groundwater was not encountered.

At approximately 2:30 PM, the UST was removed from the excavation and placed immediately on a truck. The tank dimensions were recorded at 4' x 10'7", which is approximately a 1,000 gallon tank. The tank was steel and in good condition, and was labeled accordingly noting tank contents, "vapor free," UST location, and the date pulled. No holes or leaks were noted during visual inspection of the tank. Photographic documentation was maintained during the removal process (see Appendix G). Prior to transport, the CGI was again utilized to ensure that no explosive gas mixture existed within the tank. It was then transported off-site for destruction in accordance with the procedures specified in Section 2.4 above. The certificate of disposal is found in Appendix B.

ETI collected two (2) grab soil samples from the base of the excavation and one (1) composite soil sample from the soil stockpile. Samples were collected in accordance with the procedures specified in Section 2.3 above, and submitted to a state-certified laboratory for analysis of TPH 5030.

4.0 LABORATORY ANALYSIS

All soil samples collected were transported to AquaChem Environmental Laboratories, Inc. for analysis in accordance with the North Carolina Department of Environmental Management (DEM) guidelines. AquaChem is a North Carolina state-certified laboratory located at 11176 Downs Road, Pineville, North Carolina. Laboratory transcripts are located in Appendix A.

5.0 DISCUSSION

Laboratory analytical results of the samples were received from AquaChem Environmental Laboratories, Inc. on June 7, 1994. All soil samples collected indicate below DEM action limit concentrations of all target parameters. The excavation was

backfilled using excavated soils deemed clean by laboratory analysis and additional off-site backfill to fill the void once occupied by the UST.

6.0 CONCLUSIONS

The removal of the UST and its contents as well as all sampling was performed in accordance with all applicable Environmental Protection Agency (EPA) regulations (40 CFR 280) and North Carolina Division of Environmental Management (DEM) guidelines. Laboratory analyses indicate all concentrations in the excavation and stockpiled soils are below the DEM action limit concentrations. No additional action should be required at this location.

Michael J. Lamore, PE
Vice President

Eric K. Lintz
Staff Geologist

Figure 1

Vicinity Map

ENVIRONMENTAL TECHNOLOGY OF NORTH AMERICA, INC.		NS
311-J SOUTH WESTGATE DRIVE GREENSBORO, NORTH CAROLINA		NORFOLK & WESTERN RAILWAY COMPANY 5031 OLD WALKERTOWN RD WINSTON-SALEM, NC
Project Manager EKL	Job Number: C01355	
Technician EKL	Scale: as shown	FIGURE 1
Reviewer MJL	VICINITY MAP	
By: EKL		

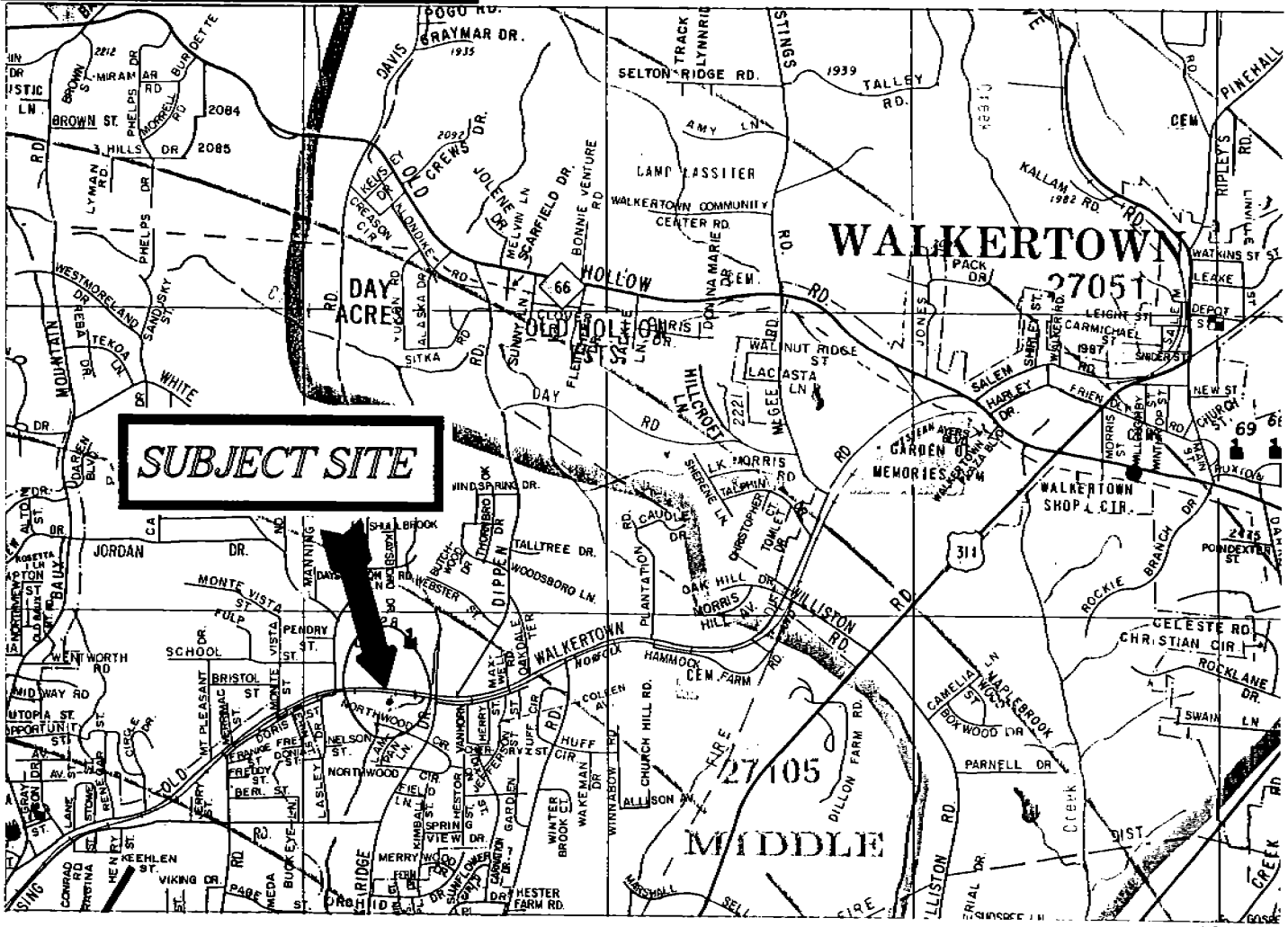
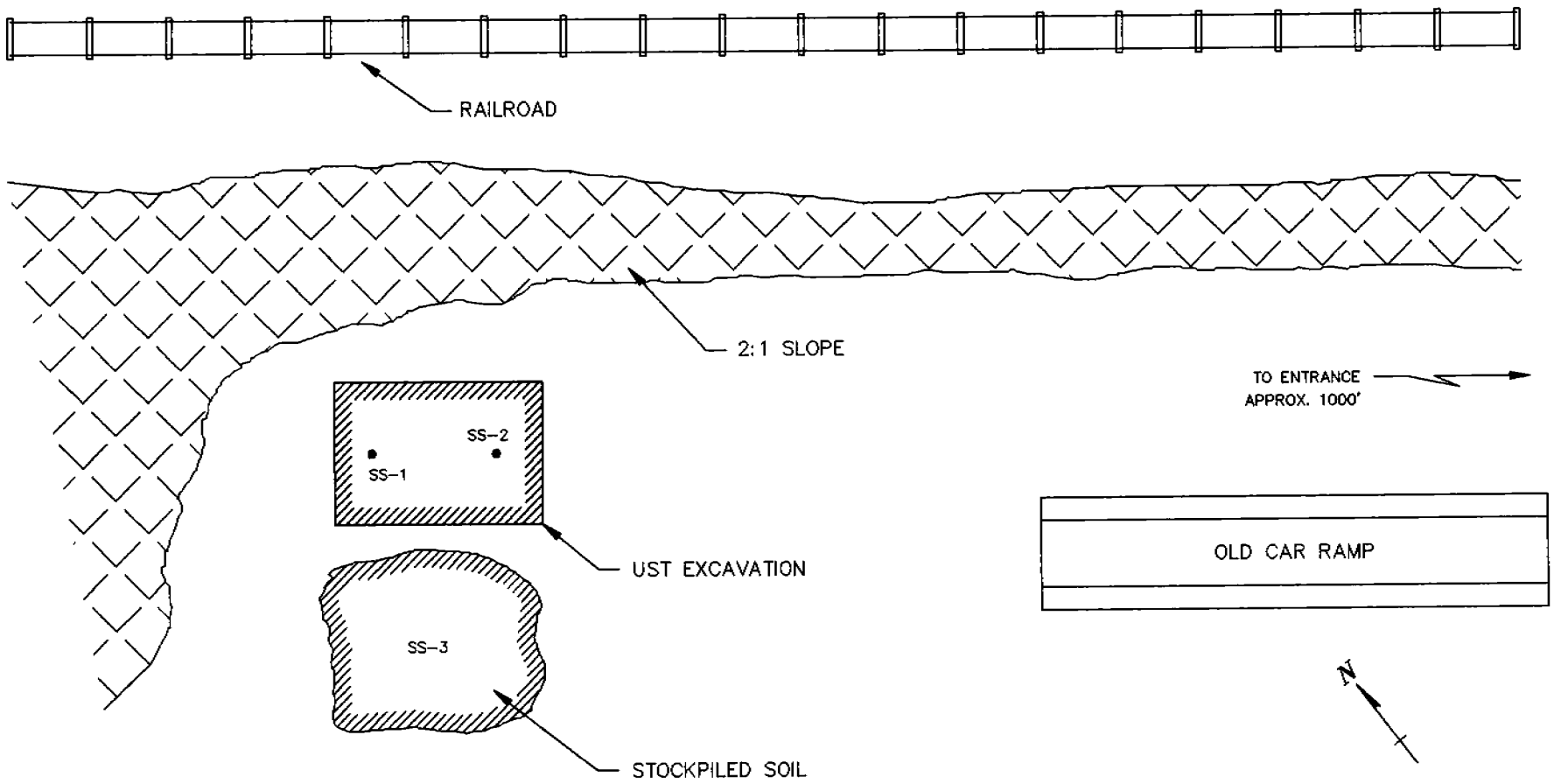


Figure 2

Site Map

ENVIRONMENTAL TECHNOLOGY OF NORTH AMERICA, INC.		NS
311-J SOUTH WESTGATE DRIVE GREENSBORO, NORTH CAROLINA		NORFOLK & WESTERN RAILWAY COMPANY 5031 OLD WALKERTOWN RD. WINSTON-SALEM, NC
Project Manager EKL	Job Number: C01355	
Technician EKL	Scale: as shown	FIGURE 2
Reviewer MJL	SITE MAP	
By: EKL		

OLD WALKERTOWN ROAD



NOTE: ALL SOIL SAMPLES WERE ANALYZED FOR TPH UTILIZING EPA METHOD 5030. ANALYTICAL RESULTS INDICATE BELOW DETECTABLE CONCENTRATIONS OF THE TARGET PARAMETERS. SEE LABORATORY TRANSCRIPTS.

- Dispensers on tank

Appendix A

Soil Sample Laboratory Transcripts

AquaChem
ENVIRONMENTAL LABORATORIES, INC.
11176 Downs Road
Pineville, NC 28134
704/588-5076
FAX 704/588-2454

NC Certification Number: 305
SC Certification Number: 99032

Date of Report: 06/03/94
Date Received : 05/27/94

Approved By: _____
Richard P. King
Laboratory Supervisor

Client: Environmental Technologies, Inc.
311-J South Westgate Drive
Greensboro, North Carolina 27407

Contact: Mr. Michael Lamore

Customer Number: 1104

LABORATORY REPORT

LAB ID: 164L01
SAMPLE ID: SS-1 (WALKERTON RD)

Parameter	Result	Det. Limit	Unit	Method	Analysis Time	Date	Anal.
TPH by 5030	BDL	5	ppm	EPA 5030	16:15	05/31/94	ANM

LAB ID: 164L02
SAMPLE ID: SS-2 (WALKERTON RD.,)

TPH by 5030	BDL	5	ppm	EPA 5030	16:15	05/31/94	ANM

LAB ID: 164L03
SAMPLE ID: SS-3 (WALKERTON RD.,)

TPH by 5030	BDL	5	ppm	EPA 5030	16:15	05/31/94	ANM

CHAIN OF CUSTODY

AquaChem
ENVIRONMENTAL LABORATORIES, INC.
11176 DOWNS ROAD
PINEVILLE, NC 28134
704/588-5076
FAX 704/588-2454

Client: ETI
Address: 311 S WESTGATE DR
City GREENSBORO State: NC Zip: 27407
Contact Person ERIC LINTZ
Sampled By: JACK JONES

Phone Number: (910) 299 9998
Fax Number: (910) 299 0655
Purchase Order Number: ~~WILL CALL~~ 13482
Certification Requirement: —
Project Name: WALKERTOWN RD 1385
Rush Charges Authorized ☐ Yes ☐ No

By relinquishing this sample(s) to Laboratory Personnel, I warrant that I am authorized to enter into this agreement for the Client named above and that I authorize the below analysis subject to the terms and conditions on the reverse hereof. This agreement is governed by the terms and conditions on the reverse side hereof. Analysis charges shall be as included in the Laboratories fee schedule in effect at the time of the analysis.

Relinquished By: Eric A. Lintz Date: 5.26.94 Time: 17:15
Received By: Date: Time:
Relinquished By: Date: Time:
Received By: Date: Time:

Samples received on ice? Yes ☐ No ☐

Sample ID	PLASTIC	GLASS	Date & Time Sampled	COMPOSITE	GRAB	Lab ID	BOD	COD	TSS	pH	Ammonia	Oil & Grease	Cyanide	Phenol	Arsenic	Selenium	Cadmium	Chromium	Copper	Lead	Nickel	Zinc	Mercury	Silver	Barium	TCLP (Complete)	TPH (3550)	TPH (5030)	TPH (9071)	COMMENTS ~~Other Analysis~~	Preservative
SS-1	X		5.25.94 14:39		X																						X			NW END of TANK	
SS-2	X		5.25.94 14:42		X																						X			SE END of TANK	
SS-3	X		5.25.94 14:48	X																							X			STOCKPILE	

Autosampler
Sampler Location_____
Date Installed_____ Time Installed_____ Flow_____CF/GPD
Date Picked Up_____ Time Picked Up_____ Flow_____
Composite Type: ☐ Flow ☐ Time ☐ Hand

Field pH
Result_____
Analyst_____
Time/Date_____
(QA/QC Separate)

Please sign and return the white and yellow copies to the Laboratory.

Appendix B

UST Certificate of Disposal

SOUTHERN TANK & ENVIRONMENTAL, INC.

CERTIFICATE OF DISPOSAL

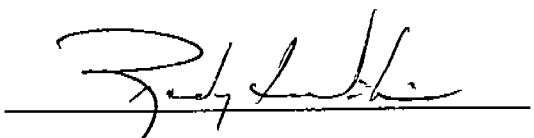
FEDERAL/CERTIFICATE # 56-1669418/9932 DATE 6/2/94

CONTRACTOR	LOCATION
Environmental Technology, Inc.	Walker Town N & W
311-J S. Westgate Dr.	
Greensboro, N.C. 27407	

TYPE OF TANK	SIZE	CONTENT IN GAL.	TANK ID#
UST 1,000 gallon	STD	Less than 1%	STDS-3542

Southern Tank & Environmental, Inc. certifies that the above mentioned tanks have been properly disposed of at 319 Lawyers Rd., Indian Trail, NC, and the contents and sludges processed in full compliance with Local, State and Federal regulations.

Southern Tank & Environmental, Inc.



Randy L. Williams

Appendix C

UST Form GW/UST-3
Notice of Intent: UST Permanent Closure

GW/UST-3 Notice of Intent: UST Permanent Closure or Change-In-Service

FOR TANKS IN NC

Return Completed Form To:
The appropriate DEM Regional Office according to the county of the facility's location. [SEE REVERSE SIDE OF OWNER'S COPY (PINK) FOR REGIONAL OFFICE ADDRESS].

State Use Only
I. D. Number _____
Date Received _____

INSTRUCTIONS
Complete and return thirty (30) days prior to closure or change-in-service.

I. OWNERSHIP OF TANK(S)

Tank Owner Name: Norfolk Western Railway Company
(Corporation, Individual, Public Agency, or Other Entity)
Street Address: 110 Franklin Road, S.E.
County: N/A
City: Roanoke State: VA Zip Code: 24042
Tel. No. (Area Code): (703) 981-4994

II. LOCATION OF TANK(S)

Facility Name or Company: N&W Auto Car Ramp
Facility ID # (if available): 0-015171
Street Address or State Road: 5031 Old Walkertown Rd.
County: Forsyth City: Winston-Salem Zip Code: 27105
Tel. No. (Area Code): (910) 724-4311

III. CONTACT PERSON

Name: Jerome E. Williams Job Title: Engineer Environmental/Design Telephone Number: (703) 981-4994

IV. TANK REMOVAL, CLOSURE IN PLACE, CHANGE-IN-SERVICE

1. Contact Local Fire Marshall.
2. Plan the entire closure event.
3. Conduct Site Soil Assessments.
4. If Removing Tanks or Closing in Place refer to API Publications 2015 "Cleaning Petroleum Storage Tanks" & 1604 "Removal & Disposal of Used Underground Petroleum Storage Tanks".
5. Provide a sketch locating piping, tanks and soil sampling locations.
6. Fill out form GW/UST-2 "Site Investigation Report for Permanent Closure" and return within 30 days following the site investigation.
7. The **site assessment** portion of the tank closure must be conducted under the supervision of a Professional Engineer or Licensed Geologist. After January 1, 1994, **all closure site assessment reports must be signed and sealed by a P.E. or L.G.**
8. Keep closure records for 3 years.

V. WORK TO BE PERFORMED BY:

(Contractor) Name: Environmental Technology, Inc. (E.T.I.)
Address: 711-J S. Westgate Drive State: North Carolina Zip Code: 27407
Contact: Eric K. Lintz Phone: (910) 299-9998
Primary Consultant: E.T.I. Phone: (910) 299-9998

VI. TANK(S) SCHEDULED FOR CLOSURE OR CHANGE-IN-SERVICE

TANK ID#	TANK CAPACITY	LAST CONTENTS	PROPOSED ACTIVITY: CLOSURE – Removal	CLOSURE – Abandonment In Place	CHANGE-IN-SERVICE – New Contents Stored
0-015171	500	Gasoline	X		

VII. OWNER OR OWNER'S AUTHORIZED REPRESENTATIVE

Print name and official title
Eric K. Lintz, Project Manager
*Scheduled Removal Date: 6/7/94
Signature: Eric K. Lintz
Date Submitted: 5/5/94

*If scheduled work date changes, notify your appropriate DEM Regional Office 48 hours prior to originally scheduled date.

GW/UST-3 (Rev.12/01/93) White Copy - Regional Office Yellow Copy - Central Office Pink Copy - Owner

Appendix D

UST Form GW/UST-8
Notification for Activities Involving USTs

(GW/UST-8)

Notification For Activities Involving Underground Storage Tanks [USTs]

FOR TANKS IN **NC**	**RETURN COMPLETED GW/UST-8 FORM TO**	N.C. Dept. Environment, Health, & Natural Resources Division of Environmental Mgmt./Groundwater Section 441 N. Harrington Street Raleigh, NC 27603 Telephone(919)733-8486

GENERAL INFORMATION

Notification is required by Federal law (42 U.S.C. 6991a) for all underground storage tank systems that were in the ground on or after May 8, 1986, unless taken out of operation on or before January 1, 1974. In addition, registration of commercial UST systems in use on or after January 1, 1989, is necessary to comply with state law (143-215.94C).

The primary purpose of this notification program is to locate and evaluate underground tanks that store or have stored petroleum or hazardous substances and to facilitate the payment of annual operating fees. It is expected that the information you provide will be based on reasonably available records, or, in the absence of such records, your knowledge, belief, or recollection.

Who Must Notify? Owners of underground tanks that store regulated substances (including petroleum) must notify the Division of the existence of their tanks. Owner means: (a) in the case of an underground storage tank in use on November 8, 1984, or brought into use after that date, any person who owns an underground storage tank used for the storage, use, or dispensing of regulated substances, and (b) in the case of any underground storage tank in use before November 8, 1984, but no longer in use on that date, any person who owned such tank immediately before the discontinuation of its use.

What Tanks Are Included? An underground storage tank (UST) is defined as any one or combination of tanks that (1) is used to contain an accumulation of "regulated substances," and (2) whose volume (including connected underground piping) is 10% or more beneath the ground. Examples include underground tanks that store gasoline, used oil, diesel fuel, industrial solvents, pesticides, herbicides, or fumigants.

What Tanks Are Excluded? USTs excluded from notification are:

1. farm or residential tanks of 1,100 gallons or less capacity used for storing motor fuel for noncommercial purposes;
2. tanks of 1,100 gallons or less capacity used for storing heating oil for consumptive use on the premises where stored;
3. underground storage tanks of more than 1,100 gallon capacity used for storing heating oil for consumptive use on the premises where stored by one to four households;
4. septic tanks;
5. pipeline facilities (including gathering lines) regulated under the Natural Gas Pipeline Safety Act of 1968, or the Hazardous Liquid Pipeline Safety Act of 1979, or which is an interstate pipeline facility regulated under State laws;
6. surface impoundments, pits, ponds, or lagoons;
7. storm water or waste water collection systems;
8. flow-through process tanks;
9. liquid traps or associated gathering lines directly related to oil or gas production and gathering operations;
10. storage tanks situated in an underground area (such as a basement, cellar, mineworking, drift, shaft, or tunnel) if the storage tank is situated upon or above the surface of the floor.

What Substances Are Covered?

The notification requirements apply to underground storage tanks that contain regulated substances. This includes any substance defined as hazardous in section 101 (14) of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA), with the exception of those substances regulated as hazardous waste under Subtitle C of RCRA. It also includes petroleum, e.g., crude oil or any fraction thereof which is liquid at standard conditions of temperature and pressure (60 degrees Fahrenheit and 14.7 pounds per square inch absolute).

When To Notify?*

1. Owners and Operators of underground storage tanks that were in the ground on or after May 8, 1986, unless taken out of operation on or before January 1, 1974, were required to notify the Division.
2. Owners bringing underground storage tanks into use after May 8, 1986, must have notified the Division within 30 days of bringing the tanks into use.
3. Any Owner or Operator who installs an UST system after January 1, 1991, must notify the Division on form GW/UST-6 at least 30 days prior to installing the UST.

Penalties: Any owner who knowingly fails to notify or submits false information shall be subject to a civil penalty not to exceed $10,000 for each tank for which notification is not given or for which false information is submitted.

*** Owners and Operators who have not complied with the notification requirements should complete this form and mail to the address above.**

INSTRUCTIONS

Please type or print all items except "signature". This form must be completed for each facility containing underground storage tanks. If more than 6 tanks are owned at a facility, photocopy necessary sheets and staple to this form.

Page No. 1 of 2 Pages Indicate number of continuation sheets attached 0.

DATE RECEIVED _____ STATE USE ONLY I.D. NUMBER _____

I. OWNERSHIP OF TANK(S)

Norfolk & Western Railway Co. (N&W)
Owner Name (Corporation, Individual, Public Agency, or Other Entity)

110 Franklin Road, S.E.
Street Address

N/A
County

Roanoke, Virginia 24042
City State Zip Code

(703) 981-4994
Area Code Phone Number

II. LOCATION OF TANK(S)

(If same as Section 1, mark box here ☐)

Norfolk & Western Auto Car Ramp
Facility Name or Company Site Identifier

5031 Old Walkertown Road
Street Address or State Road

Forsyth
County

Winston-Salem, 27105
City (nearest) Zip Code

Type of Owner (mark all that apply)

☒ Current ☐ Former ☐ State or Local Gov't ☐ Federal Gov't (GSA facility I.D. no. _____) ☒ Private or Corporate ☐ Ownership Uncertain

Facility I.D. # if assigned 0-015171

Indicate number of regulated tanks at this location 4 (4 Remaining IN-PLACE)

Indicate number of all tanks at this location 4

Mark box here if tank(s) are located on land within an Indian reservation or on other Indian trust lands ☐ (3 Closed 1990)

III. CONTACT PERSON FOR TANK LOCATION

Jerome Williams | Design Engineer Environmental | (703) 981-4994
Name | Job Title | Area Code Phone Number

IV. TYPE OF NOTIFICATION (Mark "x" for all that apply)

☒ EXISTING UST ☐ NEW UST ☐ LEAK DETECTION (LD) Certification
☐ UST UPGRADE ☐ Change of Ownership ☒ AMENDMENT of a previous notification for these USTs at this facility

"Existing" UST = an UST system installed on or before December 22, 1988.
"New" UST = an UST system installed after December 22, 1988.
"LD Certification" = notification of compliance with leak detection requirements.
UST "Upgrade" = addition of corrosion protection and spill/overfill prevention equipment.

- UST LAST USED IN MID 1970'S

V. DESCRIPTION OF ALL USTs AT THIS FACILITY

Tank Identification No. e.g., A, B,C, or 1,2,3,	Tank No. 4	Tank No.	Tank No.	Tank No.	Tank No.	Tank No.
1. Date of Installation	Pre-1972					
2. Total Capacity (Gallons)	± 500					

3. Materials of Construction choose all that apply — A. FRP (fiberglass reinf. plast.) B. Steel (with dielectric coating) C. Steel /FRP Composite O. Other (specify) Steel U. Unknown

	Tank No.		Tank No.		Tank No.		Tank No.		Tank No.		Tank No.	
	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping
Use Codes listed above	O	O										

4. Certification of Installation (Refer to North Carolina Administrative Code, Title 15A, Subchapter 2N, Section .0301) [use all codes that apply]

A. The installer has been certified by the tank and piping manufacturers.
C. Installation inspected and certified by a registered professional engineer.
E. Manufacturer's installation work check-lists has been completed.

	Tank No.	Tank No.	Tank No.	Tank No.	Tank No.	Tank No.
Use Installation Codes (A, B, or C)	N/A					
Date Install. Completed						

PATH: I certify that the information concerning installation provided in Part V. Item 4 (above) is true to the best of my belief and knowledge.

Installer: N/A
Print Name Job Title

Company Name Company Address

Signature Date

W/UST-8 Rev. 5/24/93

(Continued on next page)

Owner Name (from Section I) Norfolk & Western Railway Co. (NSW) Location (from Section II) Norfolk & Western Auto Car Ramp

5. Piping System	Tank No. 4	Tank No.	Tank No.	Tank No.	Tank No.	Tank No.
	P. Pressurized System S. Suction System G. Gravity Feed System					
Use Piping system codes	S					

6. Leak Detection [LD] (use any code or combination of codes that apply) [Refer to15A NCAC 2N .0504 & .0505]

A. Periodic tank tightness testing "TTT"*
B. Inventory Control*
C. Automatic tank gauging "ATG"*
D. Vapor monitoring
E. Groundwater monitoring
F. Interstitial monitoring-double walled tank/piping
G. Interstitial monitoring-secondary barrier
H. Automatic line leak detectors "LLD"
I. Line tightness testing "LTT"
J. Manual tank gauging
K. Statistical Inventory Reconciliation "SIR"
O. Other method allowed by State Agency. Must specify.
N. None
X. Exempt under 280.41(b)(2) (i)-(v) [piping only]

* Options A, B, and C are not stand-alone methods and may only be used in one of the following combinations: A and B or C and B.

	Tank No. 4		Tank No.		Tank No.		Tank No.		Tank No.		Tank No.	
	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping
Use LD Codes	N	N										
Date LD initiated	N/A											

7. Upgrade (use any code or combination of codes that apply) [Refer to15A NCAC 2N .0402]

Corrosion Protection

A. Sacrificial Annode
B. Impressed Current
C. FRP Tank/Piping
D. Dielectric coating
E. Steel/FRP composite
F. Internal lining
N. None
U. Unknown

	Tank No. 4		Tank No.		Tank No.		Tank No.		Tank No.		Tank No.	
	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping
Use Corrosion Protection Codes (above)	U	U										
Date Installed	Unknown											

Spill and Overfill

A. Catchment Basin
B. Automatic Shutoff Device
C. Overfill Alarm
D. Ball Float Valve
N. None

	Tank No. 4	Tank No.	Tank No.	Tank No.	Tank No.	Tank No.
Use Spill/Overfill Codes	N					
Date Installed	N/A					

8. Substances Last, Currently, or to be stored in Greatest Quantity by Volume (mark all that apply)

	Tank No. 4	Tank No.	Tank No.	Tank No.	Tank No.	Tank No.
a. Petroleum (Specify:Unleaded Reg., Unleaded Plus, Diesel, K-1, Used Oil, etc.)	Gasoline					
b. Hazardous Substance Please Indicate Name of Principal CERCLA Substance OR Chemical Abstract Service (CAS) No.						
c. Other (specify)						

VI. FINACIAL RESPONSIBILITY

☐ I have financial responsibility in accordance with 15A NCAC 2O.
☒ Mark "x" here if financial responsibility compliance date is deferred by 15A NCAC 2O Section .0202.

Method: _____

Insurer: _____

Policy Number: _____

VII. CERTIFICATION (Read and Sign After Completing Section I Thru VI.)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

Eric K. Lintz, Project Manager
Name and official title of owner or owner's authorized representative

Eric K. Lintz
Signature

5-6-94
Date Signed

Appendix E

UST Form GW/UST-2
Site Investigation Report for Permanent Closure

GW/UST-2 Site Investigation Report For Permanent Closure or Change-in-Service of U.S.T.

FOR TANKS IN **NC**

Return Completed Form To:
The appropriate DEM Regional Office according to the county of the facility's location. [SEE MAP ON REVERSE SIDE OF OWNER'S COPY (PINK) FOR REGIONAL OFFICE ADDRESS].

State Use Only
I.D. Number _____
Date Received _____

INSTRUCTIONS

Complete and return within (30) days following completion of site investigation.

I. Ownership of Tank(s)

Owner Name: NORFOLK & WESTERN RAILWAY CO.
(Corporation, Individual, Public Agency, or Other Entity)
Street Address: 110 FRANKLIN RD, SE
County: N/A
City: ROANOKE State: VA Zip Code: 24042
Telephone Number: (703) 981-4994
(Area Code)

II. Location of Tank(s)

Facility Name: NORFOLK & WESTERN AUTO CAR RAMP
(or Company)
Facility ID # (if available): 0-015171
Street Address 5031 OLD WALKERTOWN RD.
(or State Road)
County: FORSYTH City: WINSTON-SALEM Zip Code: 27105
Telephone Number: (910) 724-4311
(Area Code)

III. Contact Person

Name: JEROME E. WILLIAMS Job Title: ENGINEER ENVIRONMENTAL DESIGN Tel. No.: 703-981-4994
Closure Contractor: ENVIRONMENTAL TECHNOLOGY, INC. Address: 311-J S. WESTGATE DR, GREENSBORO, NC Tel. No.: 910-299-9998
Primary Consultant: Address: Tel. No.:
Lab: AQUACHEM ENVIRONMENTAL LAB, INC Address: 11176 DOWNS RD, PINEVILLE, NC Tel. No.: 704-588-5076

IV. U.S.T. Information

V. Excavation Condition

VI. Additional Information Required

Tank No.	Size in Gallons	Tank Dimensions	Last Contents	Water In Excavation Yes	Water In Excavation No	Free Product Yes	Free Product No	Notable Odor or Visible Soil Contamination Yes	Notable Odor or Visible Soil Contamination No
1	1000	4' x 10'7"	GASOLINE		X		X		X

See reverse side of pink copy (owner's copy) for additional information required by N.C. - DEM in the written report and sketch.

NOTE: The site assessment portion of the tank closure must be conducted under the supervision of a Professional Engineer or Licensed Geologist. After Jan.1, 1994, all closure site assessment reports must be signed and sealed by a P.E. or L.G.

VII. Check List (Check the activities completed)

PERMANENT CLOSURE (For Removing or Abandoning-in-place)

- [X] Contact local fire marshal.
- [X] Notify DEM Regional Office before abandonment.
- [X] Drain & flush piping into tank.
- [X] Remove all product and residuals from tank.
- [X] Excavate down to tank.
- [X] Clean and inspect tank.
- [X] Remove drop tube, fill pipe, gauge pipe, vapor recovery tank connections, submersible pumps and other tank fixtures.
- [X] Cap or plug all lines except the vent and fill lines.
- [X] Purge tank of all product & flammable vapors.
- [X] Cut one or more large holes in the tanks.
- [X] Backfill the area.

Date Tank(s) Permanently closed: 5/25/94
Date of Change-in-Service: _____

ABANDONMENT IN PLACE

- [ ] Fill tank until material overflows tank opening.
- [ ] Plug or cap all openings.
- [ ] Disconnect and cap or remove vent line.
- [ ] Solid inert material used - specify: _____

REMOVAL

- [X] Create vent hole.
- [X] Label tank.
- [X] Dispose of tank in approved manner.

Final tank destination: SOUTHERN TANK & ENVIRONMENTAL CHARLOTTE, NC

VIII. Certification (Read and Sign)

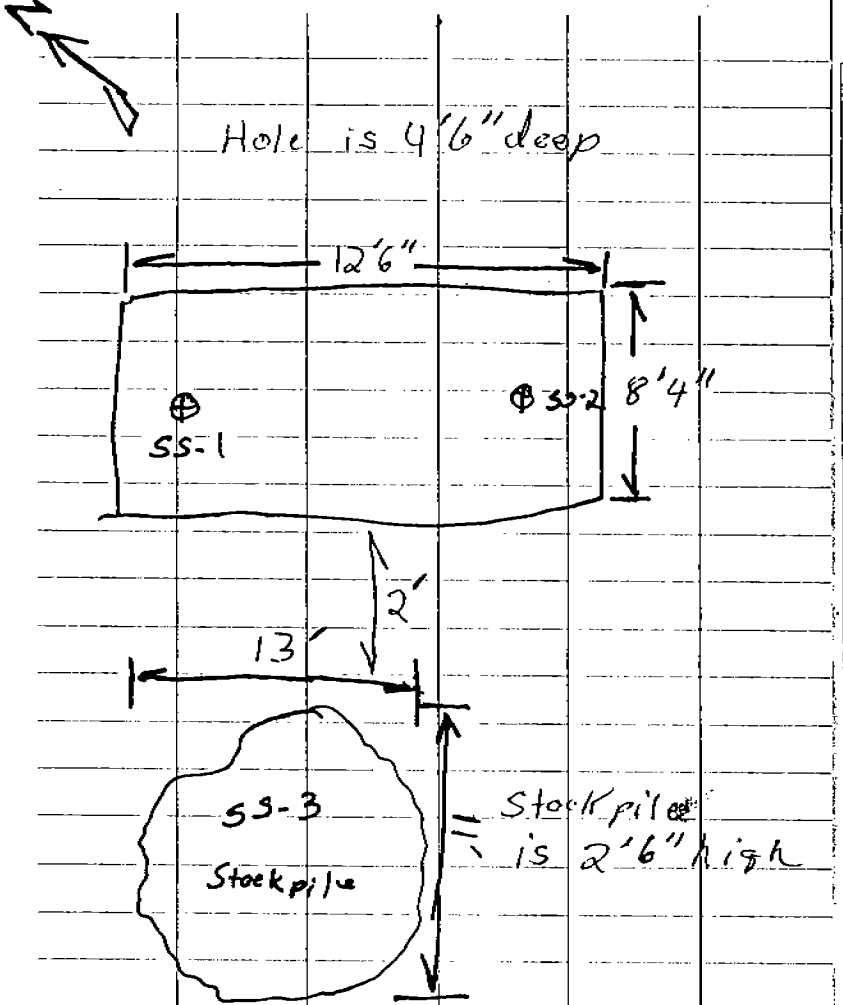
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

Print name and official title of owner or owner's authorized representative	Signature	Date Signed
ERK LINTZ / PROJECT MANAGER (EJL)		6-22-94

GW/UST-2 (Rev.12/01/93) White Copy - Regional Office Yellow Copy - Central Office Pink Copy - Owner

Appendix F

Field Report



SS-1 14.36
SS-2 1442
SS-3 1448

3/4 TRUCK LOAD BACKFILL

5-25-94 Walker town

14:00 Begin inerting TANK.
TANK is about 2" above Ground.
Tank is at least 750 gal
LEL 4%
O2 function on LEL Not Working
14:10 Excuation started digging on side of TANK closest to parking lot
14:20 Side of TANK exposed
14:28 TANK on ground
OVA Readings Show no readings on stockpile

TANK is 4 wide by 10'7" long TANK has A tar coating is covering the tank TANK appears in good shape

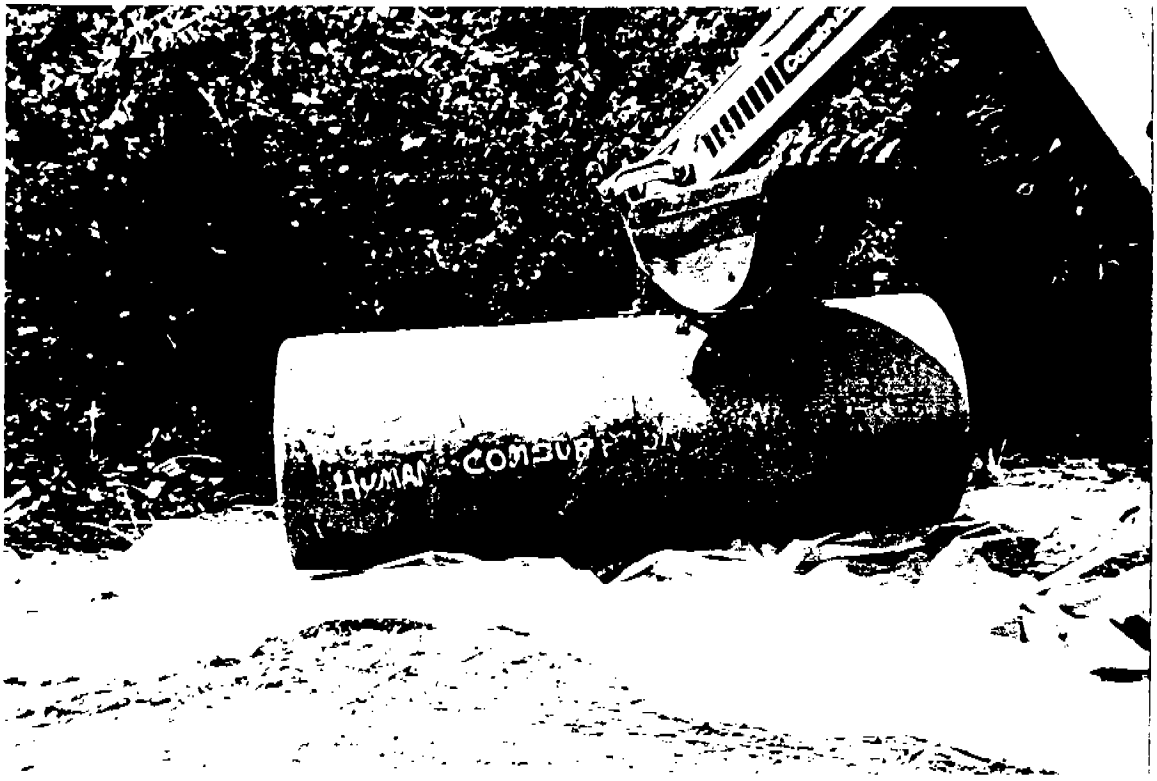
5-25-94

No discoloration was noted on the ground under the tank or on the side walls

Appendix G

Photographs

Site before excavation.



Excavated UST with appropriate markings.

Excavation after UST removal.

Restored site.